

ABOUT US

Dr. P. Kubosek, CEO and founder, has headed KVANT s.r.o. since it was established in 1995 by merging two former companies to cope with a surge in global demand for laser technology. He has steered KVANT to become one of the leading European developers and manufacturers of high quality laser systems.

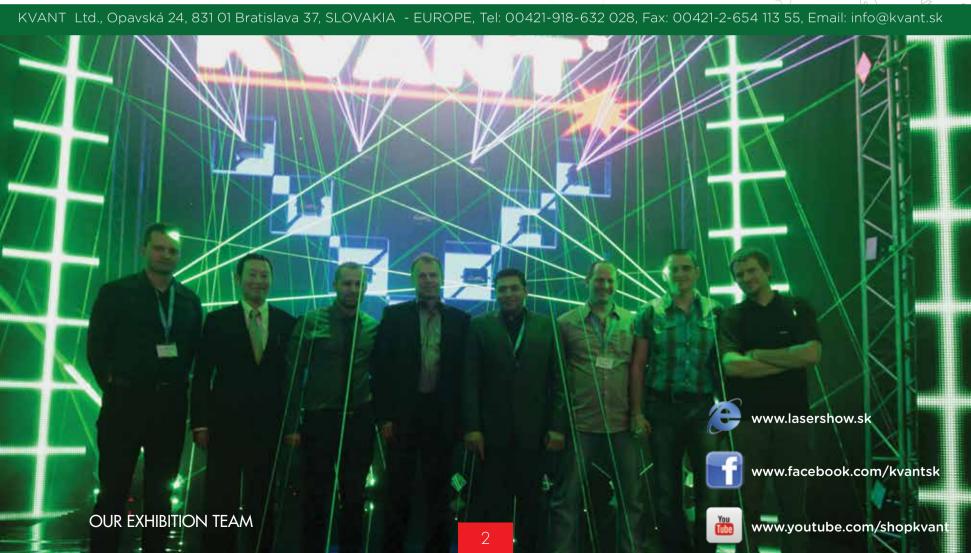
"We attribute the expansion of KVANT to our intensive R&D with those technological improvements going straight downstairs to our production line. Such products as our 20 to 35 Watt, full-colour laser entertainment systems are currently experiencing a high volume of sales in the USA.

Our global laser system hire operation is ready to ship your choice from over one hundred and fifty high quality laser systems; with the option of having our fully trained operatives setting up and directing the show. We also offer multimedia show planning for your project with our multilingual designers efficiently adapting our laser systems and 3D mapping to fit in with any of your structural and safety requirements and any special effects, pyrotechnics, etc.

We offer constant monitoring of your project with immediate backup from our highly trained technical support team. Every customer has fultime access to our experts who have many years of collective experience in the end-user delivery of effective, safe and reliable laser displays. We have more then sixty distributors worldwide with a comprehensive list in this catalogue."

































































THIS IS US

we build lasers for you



















Our R&D department has contributed to a **number of patents** and patents pending in a variety of laser related fields including in laser beam shaping and the modification of laser light parameters. Ongoing research and product development is carried out under the same roof as our production line in our 1,800 sq.M floor buildings in the capital city of Bratislava with over one hundred staff creating our **high quality laser products**.

We only use components from reputable American, Japanese and German manufacturers and all of our products meet international and EU safety requirements. KVANT is at the cutting edge of research into laser technology with our researchers in cooperation with Slovakian and German institutions and other academic institutions worldwide

New Blue Light Pumped laser modules

Our patented **Blue Light Pumped** (BLP) laser technology is based on innovative laser light sources and optics which allows us to offer improved linearity, stability, life-span and durability in our laser modules of between 100-500mW. We are currently developing this new technology to fit in our laser modules above 500mW and with the ability to cover a wider range of colours.

Electronics R&D

Our PCB prototyping machine offers us immediate turnaround and new electronic circuits can then be tested the same day. We have developed a driver board that allows analog modulation up to 100kHz with linear response between the modulation signal and laser output power.

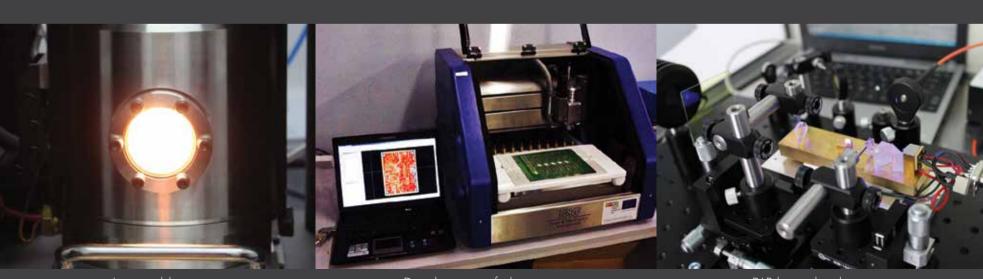
Optimization of the optics

We use lens molding machines to manufacture optically optimized lenses in-house for most of our current laser systems.

Custom design

Our expertise allows us to offer any laser system custom built to your exact specifications and requirements.





Lens molding

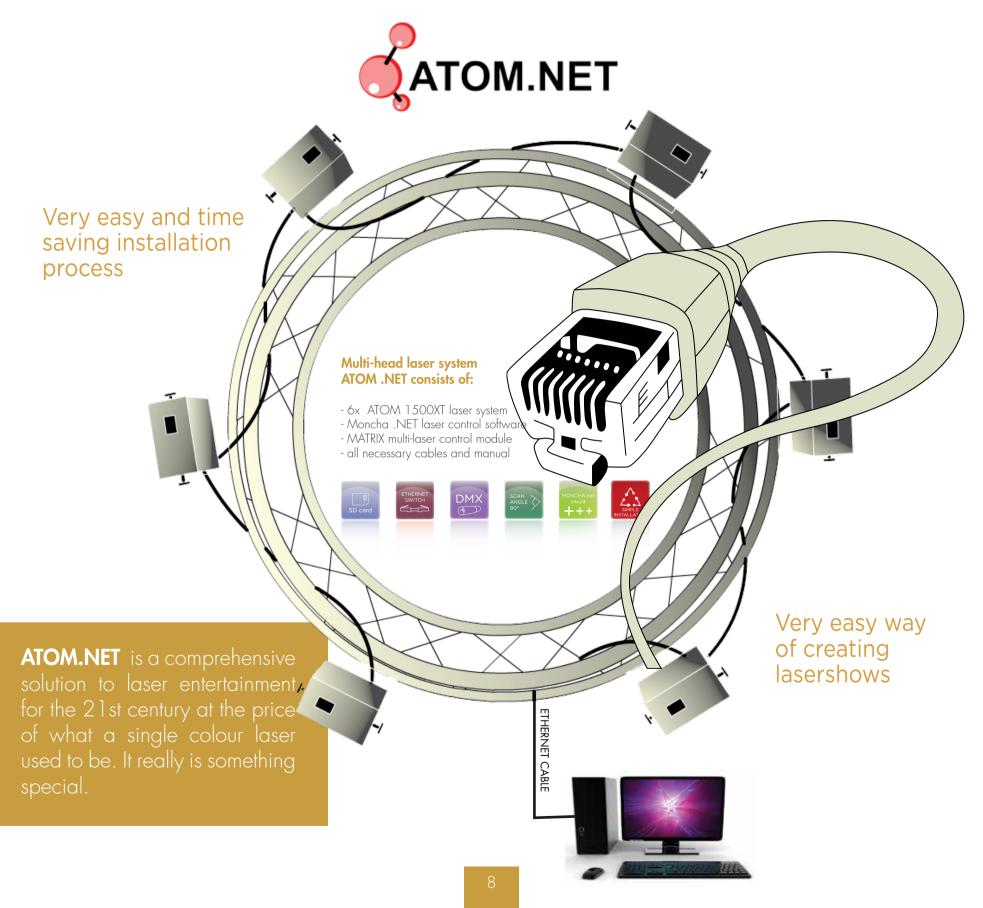
Development of electronics

BLP laser development





RGB pure diode laser systems





First of its kind DIODE ONLY full color laser system



1500 mW

Intelligent solution for all indoor venues with up to 2000 people. This system produces unique range of colours due to its 520nm green laser module. Increadible speed of modulation makes colour mixing easy and precise. This system has passive cooling (silent and dirt-proof) and its power and signal routing capabilities make it the best laser system for multi-laser installations.

3 ways of control: Ethernet(PC), DMX, Stand-alone, Wireless operation over standard WiFi network

All these models are certified to CE, ISO 9001:2000 and fully comply with the latest Laser Safety Product Standard EN 60825-1.













1500 mW

Low budget, full colour laser projector KVANT Spectrum-D elite2 1.5W RGB (637nm, 520nm, 445nm, LM scanners). Ideal solution for smaller in-door venues with up to 1000 people. Our great eLite2 was recently upgraded to give you even more for your money. By utilizing our new diodeonly technology and new driver electronics we can guarantee wastly improved overall performance of this very popular model.



















PANGOLIN's Disco-Scan lens

ILDA

SPECTRUM-D 2W

SPECTRUM-D 3W

SPECTRUM-D 2,5W

compatible

2W-3W

Our low power, full colour white-light systems were designed with maximum effectiveness in mind. Their small size, good colour balance and fast scanning speeds make these little units ideal for indoor laser shows and laser graphics applications. While our budget machine 'eLite' is great for more permanent installations, the more robust 'Spectrum-d' models are unbeatable for touring and hire purposes.

All these models are certified to CE, ISO 9001:2000 and fully comply with the latest Laser Safety Product Standard EN 60825-1:2007.

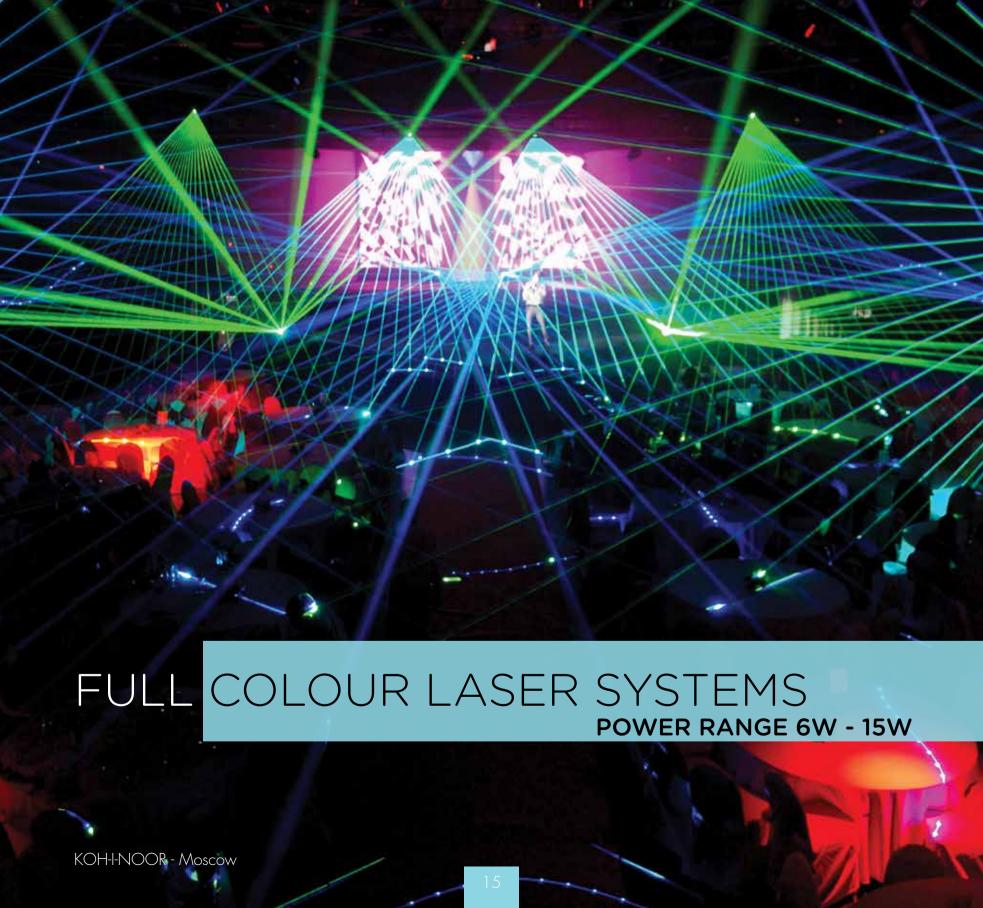


Oh, today I want something different!

Try out the disco-scan lens.



DMX





6W-15W dium power, f

These medium power, full colour white light systems are truly exceptional. Their well balanced output, matching beam diameters and divergences and clever internal and external designs make these your first choice when it comes to large indoor arenas or smaller outdoor events. They have excellent beam properties and are the perfect compact power horse for large laser graphic shows.

All these models are certified to CE, ISO 9001:2000 and fully comply with the latest Laser Safety Product Standard EN 60825-1:2007.

Yeah, I do like perfection! That's what Kvant lasers are about.





| MONCHA.net inbuilt +++ | SD card | ETHERNET | DMX | SCAN ANGLE 80° |
|------------------------|-----------|-------------|------------|----------------------|
| | RED 637nm | GREEN 532nm | BLUE 445nm | GUARANTEED POWER |
| SPECTRUM-D 6W | 2000mW | 3000mW | 2000mW | 6W |
| SPECTRUM-D 8W | 3000mVV | 3000mW | 3000mVV | 8W |
| SPECTRUM-D 10W | 3000mVV | 5000mW | 3000mVV | 10W |
| SPECTRUM-D 14W | 3000mVV | 8000mW | 3000mVV | 14W |
| SPECTRUM-D 15W | 4000mW | 8000mVV | 4000mVV | 1 <i>5</i> W |
| | | | | |











When the ultimate power and performance is required, our high-power systems are at your service. Their sturdy construction and weather resistance means that you can use them safely in almost any environment. These laser systems are suitable for large outside events and for long distance advertising.

All these models are certified to CE, ISO 9001:2000 and fully comply with the latest Laser Safety Product Standard EN 60825-1:2007.

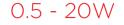




I need lots of power! Here it is! And let us know if you need even more.. We are experts in custom builds.







We call our pure green & blue lasers MAXIM. These single colour beasts are extremely compact, but deliver outstanding performance. High power models can be visible from over 20km away-enough distance to draw someones attention. New internal electronics allows us to minimize the sizes and weights and MAXIMize efficiency.

All these models are certified to CE, ISO 9001:2000 and fully comply with the latest Laser Safety Product Standard EN 60825-1:2007.

I wish I could afford high power laser!"

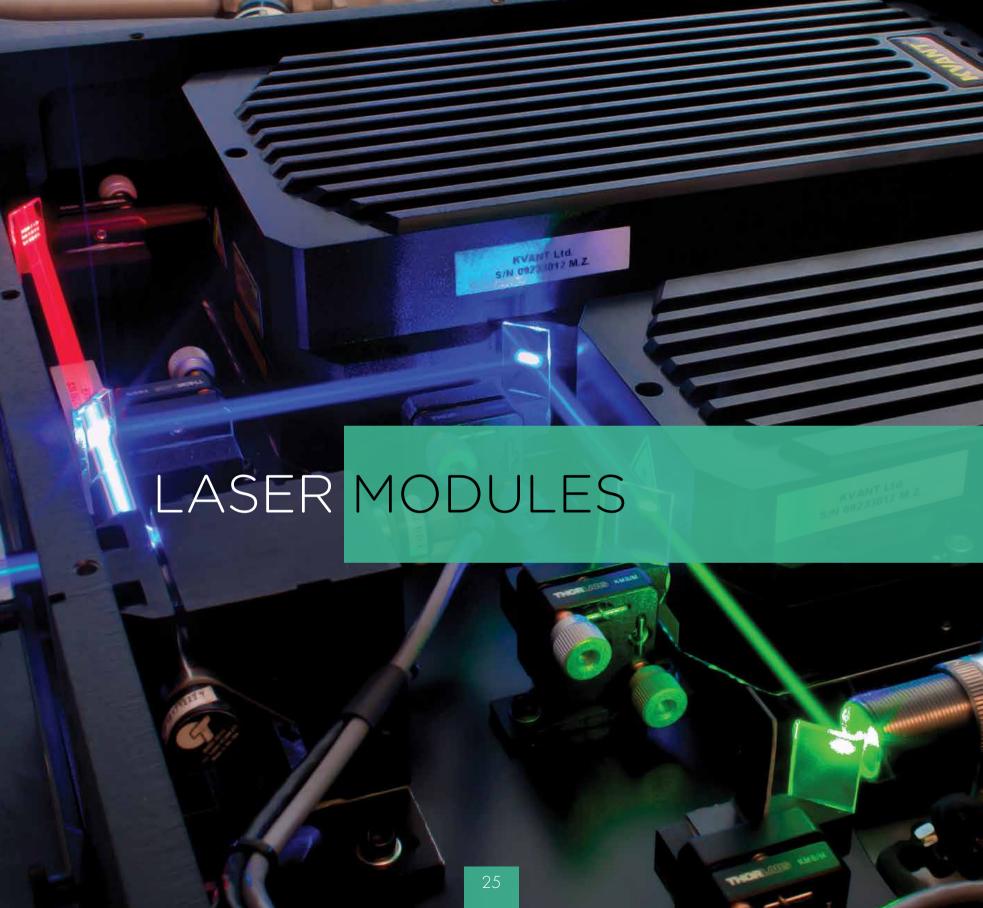
Our blue beams are beautiful, powerful and super affordable:)













Orange & Red BLP module



Coherent Taipan laser module



Full diode RGB module

Laser diode modules

KVANT's blue, red and green laser modules are equipped with top-quality laser diodes designed by prestigious laser diode manufacturers. All modules are temperature controlled (TEC) to yield maximum lifetime and optimal performance. Ongoing improvements to the mechanical components have greatly increased stability and limited the divergence close to the difraction limit. The driving electronics allows analog modulation up to 100kHz with linear response between the modulation signal and laser output power.

New KVANT Blue Light Pumped (BLP) laser modules are built using our own and unique BLP technique. This ensures that our laser modules have longer life spam, truly outstanding beam properties and are unbeatably reliable. Higher power outputs are currently under development.

- Modulation speed > 100kHz
- linear modulation response
- Design class IP67
- Internal driver is shielded against electro-magnetic induction
- •TEC thermal stabilisation
- New Kvant's BLP modules (orange, red
- New Kvant's BLP technology (patent pending)
- Improved design



| | GREEN 520nm RED 637nm |
|------------------|---|
| DIODE | RED 660nm BLUE 445nm |
| BLP | RED 639nm ORANGE 607nm |
| DIODE SCIENTIFIC | 375nm, 395nm, 405nm, 415nm, 420nm, 457nm, 473nm, 488nm |

| JENOPTIK DPSS | 532nm | | | |
|---------------|---|--|--|--|
| COHERENT OPSL | 460nm, 480nm, 488nm, 514nm, 532nm, 577nm, 590nm, 607nm, 639nm | | | |



ACCESSORIES

REFLECTION MIRROR



Reflection mirror STANDARD with mount dimensions 1.50×1.50mm



Reflection mirror ADJUSTABLE with mount, fine adjustment possible dimensions 150x150mm



Detail of fine adjustment screws



Example of REFLECTION mirror use

DIFFRACTION MIRROR



Diffraction mirror STANDARD with mount dimensions 150x150mm



Diffraction mirror ADJUSTABLE with mount, fine adjustment possible dimensions 1.50×1.50mm



Detail of fine adjustment



Example of DIFFRACTION mirror use

WATER SCREEN - CURTAIN

- Highly transparent water screen
- Great for graphic laser projections
- Lenght according to customer request
- Available with 1 or 3 nozzles lines
- Can be supplied with water pump



LASER HARP CONTROLLER



Prolight Laser Harp Controller is the latest and greatest product from Prolight that will turn your laser projector into a powerful frameless laser harp. It creates a one-of-a-kind, virtual light harp of impressive size that employs multi-colored laser beams instead of strings. Just like a real instrument, when you play it, by blocking laser beams, it makes sounds.



WATER SCREEN - SHIELD

- Half circle shaped water screen
 Dimensions approx. 10m high x 27m width
- B-Connector connection
- 1500 | / minute @ 10 bar
- Suitable for exterior use
 Possibility of water floating version



STANDARD SCANNER SETS (CUSTOMIZATION ON REQUEST)

Equipment contains: X,Y scanner, scanner drivers, scanner aluminum mount, scanner power PCB, set of scanner cables, user manual.



IM - for beam with diameter up to 4mm, 28Kpps/8°



CT6215 36Kpps/8° 3mm CT6215 30Kpps/8° 5mm CT6215 HP 60Kpps/8° 3mm CT6215 HP 35Kpps/8° 5mm

REMOTE SAFETY STOP BUTTON FOR KVANT LASER







180° by 360° scan field

ATTACHMENT BRACKET FOR PANGOLIN **SAFETY LENSES**



Compatible with KVANT laser projectors only.

LASER CONTROLLERS



PANGOLIN BEYOND

This software has been custom built from the ground up, and combines the power and functionality of LD2000, together with the ease of use and speed of QuickShow.

BEYOND will also include new features that no other laser software on this planet has, truly making it the future of laser show creation technology.



PANGOLIN QUICKSHOW

QuickShow is a complete laser system. It is capable of graphics as well as beam effects. It has everything you need for a modern laser light show. QuickShow includes the following capabilities: graphic, beams and atmospheric, show production methods.

QuickShow isn't just about a better user experience. It also has advanced technology such as the all-new Beyond calculation engine. Beyond automatically takes care of scanner optimization and colour mixing. In tests, QuickShow produced noticeably better image quality. One beta tester said: "It made my scanners look new again!"



PANGOLIN FLASHBACK 3

unique multifunction laser controller

The Flashback 3 is the smallest, easiest and most economical multifunctional laser controller. This can play laser up to 432 graphics, beams and even complete Pangolin-quality shows. No extra computer hardware is needed – the tiny Flashback 3 has everything you need to control your laser projector.

3 modes of operation in 1 device:

- 1 Standard PC to USB & ILDA
- 2 DMX
- 3 Stand alone (shows stored on SD/XD card no PC needed)

NOW also available with WIFI!



PANGOLIN QM2000.NET

Compact alloy enclosure with inbuilt PSU, QM2000 PCI interface board ant .NET board. The QM2000. NET provides for a very simple and truly plug-and-play operation of Pangolin QM2000 board. Just locate the QM2000.NET system close to (or installed within) your laser projector, connect it to a computer via Ethernet cable, and use any software within the LD2000 suite. If you want to expand the number of projectors controlled, or create large-scales shows using numerous laser projectors, this is no problem with the QM2000.NET, since you only need to connect them together with standard 10/100 Ethernet cables.

QM2000.NET is available as:

- OEM version (NET board only)
- Compact housing ready to use (include profi alu housing, power supply, LD 2000 board, Net board)



PHOENIX 4.0

PHOENIX4 LIVE - is the professional, easy-to-use software for ILDA capable laser projectors in discos, clubs and events of any size.

The user gets over 700 ready pre-programmed laser animations to perform directly and without prior knowledge an impressive live show. New effects can always be programmed by yourself and existing ones edited. By the easily to perform optimization settings you get a superior output quality even on low-cost laser systems.

All effects, runtext, SMS-4 laser and interactive intervention can be controlled in all axes of motion, via touch screen, by midi keyboard, PC keyboard and / or controlled by external DMX controller.

LASER CONTROLLERS



Main benefits of Fiesta.NET PRO

- 3 independent ILDA outputs (16 bit, 6 colour) allows you to create professional laser shows with up to 3 independent laser system units
- 3 independent DMX outputs (full 512) to control many DMX devices like fog machines, water screens, PAR lights, etc.
 - works completely over Ethernet, so the installation is really easy.
- you can use it wirelessly over Wi-Fi signal especially when you'll use directional Wi-Fi antennas outside, Fiesta NET PRO will save you hundreds of cables
- standard 19-inch 1U rack size makes it perfect for touring store it in any rack box
 - control display with all important settings
 - works perfectly with Fiesta.NET software

FIESTA.NET PRO

Fiesta.Net Pro is not just another laser show controller. Fiesta.NET PRO has been developed together with a highly experienced laser show and laser Installation Company to develop the perfect industrial solution intended for fixed installations in such places as Theaters and fast installations for touring with the least amount of cables. The system has been designed to meet every possible requirement, designed by professionals for use by professionals...



FIESTA.NET

Fiesta.NET is reliable laser show controller working over Ethernet. The main advantages are perfectly smooth laser output, maximal scan rate up to 100 000 pps and integrated DMX control (out and in).

Thanks to Ethernet connection Fiesta.NET allows easier and faster installations.Do you hate wires?Especially for large laser show events you usually have to use a lot of wires. That's where the Wi-Fi connection can help. Yes, you can use Fiesta.NET even over Wi-Fi.

MONCHA.NET

Moncha.NET is a new Ethernet laser show controller with one ILDA output, one DMX output and one DMX input. Thanks to small size, it is a perfect OEM controller even for low-cost laser show systems. It's working completely over Ethernet in real time, or it is even possible to control it over DMX or in stand-alone mode.

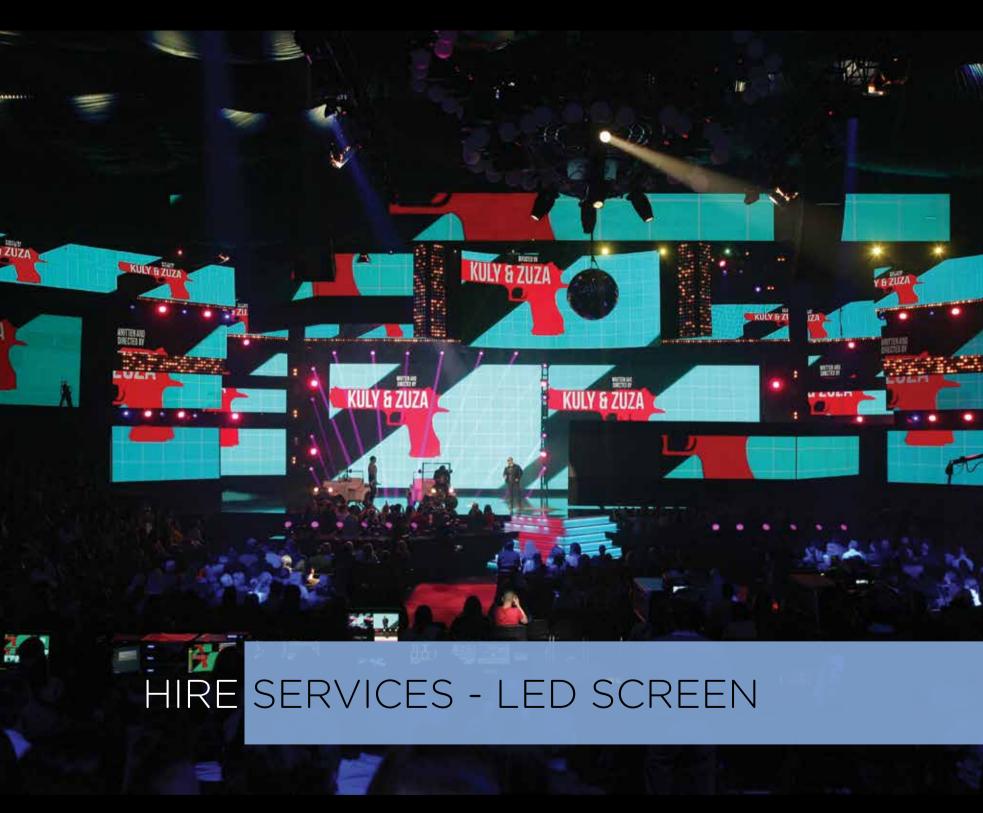


Laser projectors are becoming more available. And mostly professional users have to face the question how to control such a large number of lasers. It has always been a problem, because most of programs used nowadays are limited by number of output devices or because the way of creating laser shows for such a large number of lasers is very time-consuming.

LaserMatrix is a device that receives 4 ILDA signals in the input and in the output it has 8 ILDA outputs. But it is not only an ordinary splitter, because there is a great possibility to connect any output with any input and also it is possible to set output size, position and brightness in each output.

Controllability by the DMX signal makes it very flexible. LaserMatrix is not restricted only to our products' use, it can be used with any software for creating laser shows.





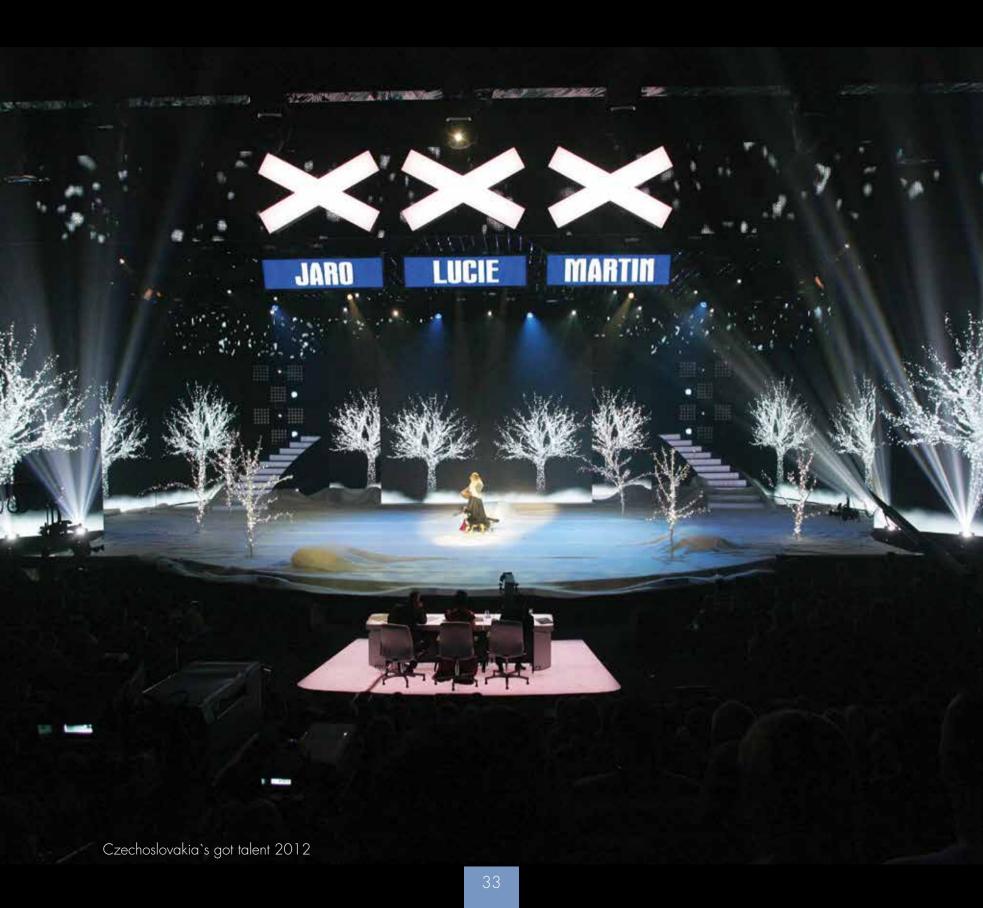
700m²

LED DISPLAY AVAILABLE FOR RENTAL

- •P6 indoor 200m2
- •P16 indoor 200m2
- •P10 outdoor 100m2
- •LED Curtain P200 200m2











AVAILABLE FOR HIRE & DRY HIRE

40 units of RGB and GREEN laser systems







12 video projectors 15000 AINSI lumens



PROFESSIONAL LASER & MULTIMEDIA SHOW PRODUCTION

VIDEO mapping





Laser show programming
Accessories
Fountains
Video animations
3D & 2D laser animations
Water screens & curtains



Full specification: Laser projectors KVANT eLite & Spectrum series

| System SPECTRUM-D | RGB-1500eLite-D | ATOM 1500-D | SPECTRUM-D 2000 | SPECTRUM-D 2500 | SPECTRUM-D 3000 | SPECTRUM-D 6000 | SPECTRUM-D 8000 |
|---------------------------------|--|--|--|---|---|---|---|
| | | | KVANT, | KVANT | ≜ KVANT _* | A KNANT, | A ROMANTA |
| Output power | 1,5W | 1,5W | 2W | 2,5W | 3W | 6W | 8W |
| Wavelength | 220mW /520nm NEW KVANT Diode laser 300mW /637nm diode laser 1W /445nm diode laser | 220mW/520nm NEW KVANT Diode laser 300mW/637nm diode laser 1W /445nm diode laser | 500mW/532nm KVANT DPSS laser 640mW /637nm diode laser 1W /445nm diode laser | 500mW/532nm KVANT DPSS laser 1W /637nm diode laser 1W /445nm diode laser | 1W /532nm DPSS laser 1W /637nm diode laser 1W /445nm diode laser | 3W /532nm OPSL Coherent 2W /637nm diode laser 2W /445nm diode laser | 3W /532nm OPSL Coherent 3W /637nm diode laser 3W /445nm diode laser |
| Input power voltage | 230VAC/50Hz (+/-5%) 110VAC/50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz |
| Modulation/ blanking | 0-5V analog, up to 100khz | 0-5V analog, up to 100 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz |
| Beam divergence | <1 mRad | <1 mRad | <1 mRad | <1 mRad | <1 mRad | <1.1 mRad | <1,1 mRad |
| Beam diameter | 3mm | 3mm | 3mm | 3,5mm | 3,5mm | 4mm | 4mm |
| Power consumption | max 300VA | max 300VA | max 300VA | max 300VA | max 300VA | max 400VA | max 450VA |
| Weight /dimensions | 7kg/300x375x135mm | 8kg/250x250x130mm | 12kg/277x201x228mm | 12kg/277x201x228mm | 17kg/370x250x250mm | 25kg/380x300x240mm | 25kg/380x300x240mm |
| Input / output connection | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX (optional) 1x Ethernet switch (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card |
| Operating / storage temperature | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C |

[•]Safety features: Key switch, Interlock loop, Scan fail safety, Magnetic Door Interlock •Scanning system: LM scanners; CT 6215H scanners; temperature stabilized; mirror reflectivity 90%, dielectric mirror coating •Scanratet: LM 28Kpps/8° 3mm; CT6215 36Kpps/8° 3mm; CT6215 30Kpps/8° 3mm; CT6215 30Kpps/8° 3mm; CT6215 HP 60Kpps/8° 3mm; CT6215 HP 35Kpps/8° 5mm

| System Spectrum | SPECTRUM-D 10 OPSL | SPECTRUM-D 10 ULTRA | SPECTRUM-D 14 | SPECTRUM-D 15 | SPECTRUM-D 20 | SPECTRUM-D 25 Y | SPECTRUM-D 30 | SPECTRUM-D 35 |
|---------------------------------|--|--|--|--|--|---|--|---|
| · | I HYMANT, | A NAME . | A KVIANT, | NVMAT, | POWANT, | - 4 | | |
| Output power | 10W | 10VV | 14W | 15W | 19,5W | 25W | 30VV | 35W |
| Wavelength | 5W /532nm OPSL Coherent 2,5W /639nm OPSL 2W /460nm OPSL | 5W /532nm OPSL Coherent 3W /(637nm + 660nm) 3W /445nm | 8W /532nm OPSL Coherent 3W /(637nm + 660nm) 3W /445nm | 8W /532nm OPSL Coherent 3,9W /637nm diode laser 4W /445nm diode laser | 8W /532nm OPSL Coherent 5,8W /637nm diode laser 6W /445nm diode laser | 8W/532nm OPSL Coherent 6,8W/637nm diode laser 6W/445nm diode laser 5W /577nm OPSL | 8W/532nm OPSL Coherent 10W/637+660nm diode laser 12W/445nm diode laser | 15W/532nm OPSL Coherent 10W/637+660nm diode laser 12W/445nm diode laser |
| Input power voltage | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz |
| Modulation/ blanking | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz | 0-5V analog, up to 50 kHz |
| Beam divergence | <1,3 mRad | <0,6 mRad | <1,1 mRad | <1,1 mRad | <1,1 mRad | <1,1 mRad | <1,1 mRad | <1,1 mRad |
| Beam diameter | 3mm | 4mm | 4mm | 5mm | 5mm | 5mm | 5,5mm | 5,5mm |
| Power consumption | max 600VA | max 500VA | max 500VA | max 500VA | max 550VA | max 900VA | max 900VA | max 900VA |
| Weight / dimensions | 30kg/421x244x353mm | 25kg/380x300x240mm | 34kg/421x244x353mm | 34kg/421x244x353mm | 34kg/421x244x353mm | 48kg/730x270x510mm | 48kg/ 730x270x510mm | 48kg/ 730x270x510mm |
| Input / output connection | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card |
| Operating / storage temperature | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C |

[•]Safety features: Key switch, Interlock loop, Scan fail safety, Mechanical shooter, Magnetic Door Interlock •Scanning system: CT 6215H scanners; temperature stabilized; mirror reflectivity 90%, dielectric mirror coating •Scanratet: LM 28Kpps/8° 3mm; CT6215 36Kpps/8° 3mm; CT6215 30Kpps/8° 3mm; CT6215 HP 60Kpps/8° 3mm; CT

Full specification: Laser projectors KVANT Maxim series

| System Maxim | MXB-1000 | MXB-3000 | MXB-6000 | MXB-20 | MX-500 | MX-1000 | MX-3000 |
|---------------------------------|---|---|---|---|---|---|---|
| | | | | · KVANT | KVANT | KVANT. | _ KVANT _* |
| Output power | 1W | 3VV | 6W | 20W | 0,5VV | 1W | 3W |
| Wavelength | KVANT 445nm Diode laser | KVANT 532nm green DPSS | KVANT 532nm green DPSS | COHERENT 532nm green OPSL |
| Input power voltage | 230VAC / 50Hz (+/-5%) 110VAC / 50Hz | 230VAC / 50Hz (+/-5%) 110VAC / 50Hz |
| Modulation/blanking | analog 0-5V up to 50kHz | analog 0-5V up to 50kHz |
| Beam divergence | < 0,7 mrad | < 0,8 mrad | < 0,8 mrad | < 0,9mrad | <1 mrad | <1 mrad | <1 mrad |
| Beam diameter | 3mm | 3mm | 5mm | 10mm | 2,5mm | 2,5mm | 2,5mm |
| Power consumption | max 220VA | max 220VA | max 320VA | max 900VA | max 220VA | max 220VA | max 300VA |
| Weight / dimensions | 8kg/250x250x130mm | 8kg/250x250x130mm | 10kg/250x250x130mm | 17kg/370x250x250mm | 12kg/250x280x210mm | 12kg/250x280x210mm | 12kg/250x280x210mm |
| Input / output connection | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX (optional) 1x Ethernet (optional) 1x SD card (optional) | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card |
| Operating / storage temperature | 10 to 35°C / 0 to 50°C | 10 to 35°C / 0 to 50°C |

[•]Safety features: Key switch, Interlock loop, Scan fail safety, Mechanical shooter, Magnetic Door Interlock •Scanning system: CT 6215H scanners; temperature stabilized; mirror reflectivity 90%, dielectric mirror coating •Scanratet: UM 28Kpps/8° 3mm; CT6215 36Kpps/8° 3mm; CT6215 30Kpps/8° 3mm; CT6215 HP 60Kpps/8° 3mm; CT6215 HP 60Kpps/8° 3mm; CT6215 HP 35Kpps/8° 5mm •Maximal angle: 80° for both axes (CT 6215H)

| System Maxim | MX-5000 | MX-8000 | MX-8000 Hybrid | MX-10 | MX-15 | MX-20 |
|---------------------------------|---|---|--|---|---|---|
| | A KVANT, | _ KVANT, | A KVANT. | A KVANT | A KVANT. | A KVANT. |
| Output power | 5W | 8W | 9W | 10W | 15W | 20W |
| Wavelength | COHERENT 532nm green OPSL | COHERENT 532nm green OPSL | COHERENT 532nm green OPSL + 1,3W RB (637,445nm)) KVANT | COHERENT 532nm green OPSL | COHERENT 532nm green OPSL | COHERENT 532nm green OPSL |
| Input power voltage | 230VAC / 50Hz (+/-5%) 110VAC / 50Hz | 230VAC / 50Hz (+/-5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/-5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz | 230VAC / 50Hz (+/- 5%) 110VAC / 50Hz |
| Modulation/ blanking | analog 0-5V up to 50kHz | analog 0-5V up to 50kHz | analog 0-5V up to 50kHz | analog 0-5V up to 50kHz | analog 0-5V up to 50kHz | analog 0-5V up to 50kHz |
| Beam divergence | COHERENT < 1,3mrad | COHERENT < 1,3 mrad | COHERENT < 1,3 mrad | COHERENT < 1,3 mrad | COHERENT < 1, 1 mrad | COHERENT < 1,1 mrad |
| Beam diameter | COHERENT 2,3mm | COHERENT 2,5mm | COHERENT 2,5mm | COHERENT 2,5mm | COHERENT <5mm | COHERENT <5mm |
| Power consumption | max 300VA | max 300VA | max 300VA | max 350VA | max 600VA | max 650VA |
| Weight / dimensions | 12kg/250x280x210mm | 12kg/250x280x210mm | 13kg/250x280x210mm | 12kg/250x280x210mm | 25kg/380x300x240mm | 25kg/380x300x240mm |
| Input / output connection | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card | 1x in/out ILDA 1x DMX 1x Ethernet 1x SD card |
| Operating / storage temperature | 10 to 35°C / 10 to 50°C | 10 to 35°C / 10 to 50°C | 10 to 35°C / 10 to 50°C | 10 to 35°C / 10 to 50°C | 10 to 35°C / 10 to 50°C | 10 to 35°C / 10 to 50°C |

[•]Safety features: Key switch, Interlock loop, Scan fail safety, Mechanical shooter, Magnetic Door Interlock •Scanning system: CT 6215H scanners; temperature stabilized; mirror reflectivity 90%, dielectric mirror coating •Scanratet: LM 28Kpps/8° 3mm; CT6215 36Kpps/8° 3mm; CT6215 30Kpps/8° 3mm; CT6215 HP 60Kpps/8° 3mm; CT

Full specification: Diode laser modules KVANT

RED series II

| Model Nr. | | RLM- 1 <i>7</i> 0L | RLM- 340L | RLM- 680L | RLM- 1000L | RLM- 1300L | RLM- 2000L | RLM- 2400L | RLM- 3000L | RLM- 3900L | RLM- 4800L | RLM- 5800L | RLM- 6800L |
|---------------------------------|---------------|-----------------------|--------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Optical power (mW) | | 170 | 340 | 680 | 1000 | 1300 | 2000 | 2400 | 3000 | 3900 | 4800 | 5800 | 6800 |
| Center wavelength (nm) | | 637 | 637 | 637 | 637 | 637 | 637 | 637 | 637 | 637 | 637 | 637 | 637 |
| Center wavelength tolerance (n | m) | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 |
| Beam size (1/e², mm) (horizon | tal*vertical) | 1.4x2.5 | 2.5×2.5 | 2.5×3.5 | 3.5x3.5 | 2.5x3.5 | 3.5×3.5 | 4x3.5 | 5x3.5 | 4x5 | 5x5 | 5.5x5 | 6x5 |
| Beam divergence (half angle, n | nrad) | 0.2 | 0.2 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Linear polarization | | Y | Ν | Υ | Y | N | N | N | N | N | N | N | N |
| M2 (horizontal/vertical) | | 1/2 | 2/2 | 5/7 | 5/7 | 5/7 | 7/7 | 8/7 | 9/7 | 8/10 | 10/10 | 11/10 | 11/10 |
| Modulation freq. (kHz) | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| DI | TEC circuit | 24V/1.5A | 24V/1.5A | 24V/1.5A | 24V/1.5A | 24V/3A | 24V/3A | 24V/3A | 24V/6A | 24V/6A | 24V/6A | 24V/6A | 24V/6A |
| Peak power consumption (W) | LD circuit | 24V/0.5A | 24V/0.5A | 24V/0.5A | 24V/0.5A | 24V/1A | 24V/1A | 24V/1A | 24V/1A | 24V/1.5A | 24V/1.5A | 24V/2A | 24V/2.5A |
| Dimensions (LxWxH,mm) | | 87x60x45 | 87x60x45 | 132x77x51 | 132x77x51 | 174x107x51 | 174x107x51 | 174x107x51 | 188x122x57 | 248x141x66 | 248x141x66 | 248x141x66 | 248x141x66 |
| External driver part dimensions | (LxWxH,mm) | 117x89x34 | 11 <i>7</i> x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 |
| Picture | | | <u>.</u> | | À | 12 | | | | | 33 | .A== | Ì. |

RED series III

| Model Nr. | | RLM- 130D | RLM- 250D | RLM- 500D | RLM- 750D | RLM- 1000D | RLM- 1 <i>5</i> 00D | RLM- 1800D | RLM- 2000D | RLM- 2800D | RLM- 3500D | RLM- 4300D |
|---------------------------------|---------------|--------------|--------------|--------------|--------------|---------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| Optical power (mW) | | 130 | 250 | 500 | <i>7</i> 50 | 1000 | 1500 | 1800 | 2000 | 2800 | 3500 | 4300 |
| Center wavelength (nm) | | 660 | 660 | 660 | 660 | 660 | 660 | 660 | 660 | 660 | 660 | 660 |
| Center wavelength tolerance (n | m) | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 |
| Beam size (1/e², mm) (horizon | tal*vertical) | 1.4x2.5 | 2.5×2.5 | 2.5x3.5 | 3.5x3.5 | 2.5x3.5 | 3.5x3.5 | 4x3.5 | 4x3.5 | 4x5 | 5x5 | 5.5x5 |
| Beam divergence (half angle, m | nrad) | 0.2 | 0.2 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Linear polarization | | Y | Ν | Υ | Y | N | N | N | N | N | N | N |
| M2 (horizontal/vertical) | | 1/2 | 2/2 | 5/7 | 5/7 | 5/7 | 7/7 | 8/7 | 8/7 | 8/10 | 10/10 | 11/10 |
| Modulation freq. (kHz) | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 5 L 0.0 | TEC circuit | 24V/1.5A | 24V/1.5A | 24V/1.5A | 24V/1.5A | 24V/3A | 24V/3A | 24V/3A | 24V/6A | 24V/6A | 24V/6A | 24V/6A |
| Peak power consumption (W) | LD circuit | 24V/0.5A | 24V/0.5A | 24V/0.5A | 24V/0.5A | 24V/1A | 24V/1A | 24V/1A | 24V/1A | 24V/1.5A | 24V/1.5A | 24V/2A |
| Dimensions (LxWxH,mm) | | 87x60x45 | 87x60x45 | 132x77x51 | 132x77x51 | 174x107x51 | 174x107x51 | 174×107×51 | 188x122x57 | 248x141x66 | 248x141x66 | 248x141x66 |
| External driver part dimensions | (LxWxH,mm) | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 |
| Picture | | | | | A | 12 | | j. | | | | ASS |

GREEN series

| Model Nr. | | GLM-60DM | GLM-240DM | |
|---------------------------------|--------------|-----------|-----------|--|
| Optical power (mW) | | 60 | 240 | |
| Center wavelength (nm) | | 520 | 520 | |
| Center wavelength tolerance (n | m) | ± 5 | ± 5 | |
| Beam size (1/e²,mm) (horizont | al*vertical) | 2 x 4 | 4 × 4 | |
| Beam divergence (half angle, m | nrad) | 0.3 | 0.3 | |
| Linear polarization | | Y | N | |
| Modulation freq. (kHz) | | 100 | 100 | |
| D I : 040 | TEC circuit | 24V/1.5A | 24V/1.5A | |
| Peak power consumption (W) | LD circuit | 24V/0.5A | 24V/0.5A | |
| Dimensions (LxWxH,mm) | | 87x60x45 | 132x77x51 | |
| External driver part dimensions | (LxWxH,mm) | 117x89x34 | 117x89x34 | |
| Picture | | A | A | |

RGB diode module

| NOD aload modele | | |
|---------------------------------|--------------|---|
| Model Nr. | | RGB-1500DM |
| Optical power (mW) | | 1500 |
| Center wavelength (nm) | | 445nm (1VV) 520nm (220mVV) 637nm (340mVV) |
| Center wavelength tolerance (nr | m) | ± 5 |
| Beam size (1/e²,mm) (horizonto | al*vertical) | 4 × 4 |
| Beam divergence (half angle,ha | 0.7/0.3 | |
| Linear polarization | N | |
| Modulation freq. (kHz) | | 100 |
| | TEC circuit | 24V/3A |
| Peak power consumption (W) | LD circuit | 24V/2A |
| Dimensions (LxWxH,mm) | | 141×107×52 |
| External driver part dimensions | (LxWxH,mm) | 100x68x33 |
| Picture | | |

RED-BLUE series

| Model Nr. | | RBLM-1300 | RBLM-1700 | RBLM-2500 | RBLM-2800 | RBLM-4300 |
|---------------------------------|--------------------|-----------------------------|-----------------------------|----------------------------|------------------------------|----------------------------|
| Optical power (mW) | | 1300 | 1700 | 2500 | 2800 | 4300 |
| Center wavelength (nm) | | 445 (1W) and 637 (340mW) | 445 (1W) and 637 (680mW) | 445 (1.5W) and 637 (1W) | 445 (1.5W) and 637 (1.3W) | 445 (3W) and 637 (1.3W) |
| Center wavelength tolerance (n | m) | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 |
| Beam size (1/e²,mm) (horizont | al*vertical) | 3 x 4.5 | 3 x 4.5 | 3.5×4.5 | 3x4.5 | 3x4.5 |
| Beam divergence (half angle, h | oriz./vert., mrad) | 0.9 / 0.2 | 0.9 / 0.8 | 0.8 | 0.8 | 0.8 |
| Linear polarization | | N | Y | Υ | N | N |
| Modulation freq. (kHz) | | 100 | 100 | 100 | 100 | 100 |
| p. l | TEC circuit | 24V/1.5A | 24V/1.5A | 24V/3A | 24V/3A | 24V/3A |
| Peak power consumption (W) | LD circuit | 24V/1A | 24V/1.5A | 24V/2A | 24V/2A | 24V/2.5A |
| Dimensions (LxWxH,mm) | | 107x77x51 | 132x77x51 | 174x107x51 | 174x107x51 | 174x107x51 |
| External driver part dimensions | (LxWxH,mm) | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 |
| Picture | | | A | | | |

RED combined

| Model Nr. | RLM-3000LD | | |
|---------------------------------|------------------------------|------------|--|
| Optical power (mW) | 3000 | | |
| Center wavelength (nm) | 637 (1.7W) and 660 (1.3W) | | |
| Center wavelength tolerance (n | ± 5 | | |
| Beam size (1/e²,mm) (horizonte | 5 x 5 | | |
| Beam divergence (half angle, h | 0.2 | | |
| Linear polarization | Ν | | |
| M2 (horizontal/vertical) | 3/3 | | |
| Modulation freq. (kHz) | 100 | | |
| Darlana and Ann | TEC circuit | 24V/6A | |
| Peak power consumption (W) | LD circuit | 24V/2A | |
| Dimensions (LxWxH,mm) | | 248x141x66 | |
| External driver part dimensions | 117x89x34 | | |
| Picture | | A= | |

BLUE series

| Model Nr. | | BLM- 1000B | BLM- 1 <i>5</i> 00B | BLM- 2000B | BLM- 3000B | BLM- 4000B | BLM- 5000B | BLM- 6000B | BLM- 9000B | BLM- 12kB | BLM- 24kB |
|---------------------------------|----------------------------|---------------|------------------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------|--------------|
| Optical power (mW) | | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 6000 | 9000 | 12 W | 20 W |
| Center wavelength (nm) | | 445 | 445 | 445 | 445 | 445 | 445 | 445 | 445 | 445 | 445 |
| Center wavelength tolerance (r | im) | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 |
| Beam size (1/e², mm) (horizon | tal*vertical) | 3x3 | 3x3 | 3x3 | 3x3 | 5x4.5 | 5x4.5 | 6x4.5 | 6x6 | 6x6 | 11x10 |
| Beam divergence (half angle, h | norizontal/vertical, mrad) | 0.7 / 0.3 | 0.8 / 0.3 | 0.7 / 0.3 | 0.8 / 0.3 | 0.9 / 0.2 | 0.9 / 0.2 | 0.8 / 0.2 | 0.8 / 0.4 | 0.8 / 0.4 | 0.9 / 0.3 |
| Linear polarization | | Υ | Υ | N | N | Ν | N | Ν | N | N | N |
| M2 (horizontal/vertical) | | 7/3 | 8/3 | 7/3 | 8/3 | 17 / 3 | 17 / 3 | 17 / 3 | 17 / 8 | 17 / 8 | 35 / 11 |
| Modulation freq. (kHz) | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| D | TEC circuit | 24V/1.5A | 24V/1.5A | 24V/1.5A | 24V/3A | 24V/3A | 24V/6A | 24V/6A | 24V/12A | 24V/9A | 24V/24A |
| Peak power consumption (W) | LD circuit | 24V/1A | 24V/1A | 24V/1A | 24V/1A | 24V/1.5A | 24V/2A | 24V/2A | 24V/3.5A | 24V/3.5A | 24V/7A |
| Dimensions (LxWxH,mm) | | 87x60x45 | 87x60x45 | 132x77x51 | 132x77x51 | 132x77x51 | 174×107×51 | 174x107x51 | 174x107x51 | 214x141x66 | 248x141x66 |
| External driver part dimensions | (LxWxH,mm) | 117x89x34 | 11 <i>7</i> x89x34 | 117x89x34 | 117x89x34 | 11 <i>7</i> x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x34 | 117x89x69 |
| Picture | | | A | 4 | A | L | 12 | | | Car The | A ST |

Scientific series

| Model Nr. | 375LM-20 | 375LM-200 | 395LM-120 | 405LM-200 | 405LM-500 | 405LM-1k | 415LM-120 | 420LM-120 | 445LM-100 |
|-------------------------------------|----------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|
| Optical power (mW) | 20 | 200 | 120 | 200 | 500 | 100 | 120 | 120 | 100 |
| Center wavelength (nm) | 375 | 375 | 395 | 405 | 405 | 405 | 415 | 420 | 445 |
| Center wavelength tolerance (nm) | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 |
| Beam mode structure | TEMOO | MULTIMODE | TEMOO | TEMOO | MULTIMODE | MULTIMODE | TEMOO | TEMOO | TEMOO |
| Beam diameter* (1/e²,mm) | 4 | ~ 4 × 4 | 4 | 4 | ~ 4 × 4 | ~ 4 × 4 | 4 | 4 | 4 |
| Beam divergence (half angle, mrad) | 0.2 | - | 0.2 | 0.2 | - | - | 0.2 | 0.2 | 0.2 |
| Linear polarization | Y | Υ | Υ | Υ | Y | Υ | Υ | Υ | Υ |
| M ² | ~1 | - | ~1 | ~1 | - | - | ~1 | ~1 | ~1 |
| Max. modulation freq.(kHz) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| OEM driver** peak power consumption | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A |
| Dimensions (LxWxH,mm) | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 |
| Picture | Lase | r head | | | Bench-top driver | | · | VIII | |

^{*} Higher power and other beam diameter upon request
** Modules available with OEM driver or bench-top driver

Scientific series

| Model Nr. | 445LM-500 | 445LM-1k | 457LM-100 | 473LM-80 | 488LM-60 | 488LM-200 | 520LM-60 | 637LM-170 | 642LM-150 | 660LM-120 |
|-------------------------------------|-----------------------------|------------|-----------|----------|----------|-----------|----------|-----------|-----------|-----------|
| Optical power (mW) | 500 | 1000 | 100 | 80 | 60 | 200 | 60 | 170 | 150 | 120 |
| Center wavelength (nm) | 445 | 445 | 457 | 473 | 488 | 488 | 520 | 637 | 642 | 660 |
| Center wavelength tolerance (nm) | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 |
| Beam mode structure | MULTIMODE | MULTIMODE | TEMOO | TEMOO | TEMOO | TEMOO | TEMOO | TEMOO | TEMOO | TEMOO |
| Beam diameter* (1/e²,mm) | 4 × 4 | 4 × 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Beam divergence (half angle, mrad) | 0.3 / 0.2 | 0.5 / 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Linear polarization | Y | Υ | Υ | Υ | Y | Υ | Υ | Υ | Y | Υ |
| M ² | - | - | ~1 | ~1- | ~1 | ~1 | ~1 | ~1 | ~1 | ~1 |
| Max. modulation freq.(kHz) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| OEM driver** peak power consumption | 24V / 2.5A | 24V / 2.5A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A | 24V / 2A |
| Dimensions (LxWxH,mm) | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 | 87x60x45 |
| Picture | Laser head Bench-top driver | | | | | | | | | |

^{*} Higher power and other beam diameter upon request
** Modules available with OEM driver or bench-top driver

Full specification: BLP laser modules KVANT

KVANT

| Model Nr. | OLM - 180 | RLM - 400 |
|--|------------|--|
| Optical power (mW) | >180 | >400 |
| Center wavelength (nm) | 607 | 639 |
| Center wavelength tolerance (nm) | ± 1 | ± 1 |
| Beam size (1/e², mm) (horizontal*vertical) | Ø 3.2 | Ø 2.8 |
| Beam divergence (half angle, mrad) | 0.16 | 0.17 |
| Linear polarization | Υ | Υ |
| M ² | ~1.1 | ~1.1 |
| Modulation freq.(kHz) | - | - |
| Peak power consumption | 24V / 2.5A | 24V / 2.5A |
| Dimensions (LxWxH,mm) | 120x59x40 | 120x59x40 |
| Driver dimensions (LxWxH,mm) | 117x89x34 | 117x89x34 |
| Picture | No. | The state of the s |

Full specification: OPSL laser modules Coherent Genesis Taipan & DPSS Jenoptik

COHERENT

| Series | Blue | Cyan II | Cyan I | Green II | Green I | Yellow | Orange II | Orange I | Red |
|------------------------------------|--------------|----------------------|--------------|--------------|-------------------------------|------------------------------|------------|------------|--------------------------------------|
| Optical power (mW) | 1000 2000 | 1000 2000 4000 | 3000 5000 | 3000 5000 | 3000 5000 8000 10000 | 2000 3000 5000 6000 | 3000 | 1250 | 1000 1500 2000 2500 5000 |
| Center wavelength (nm) | 460 | 480 | 488 | 514 | 530 | 577 | 590 | 607 | 639 |
| Center wavelength tolerance (nm) | ± 3 | ± 3 | ± 3 | ± 3 | ± 3 | ± 3 | ± 3 | ± 3 | ± 1 |
| Spectral width (nm) | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Beam size (FWHM, mm) | Ø 2.3 | Ø 2.3 | Ø 2.3 | Ø 2.3 | Ø 2.3 | Ø 2.3 | Ø 2.3 | Ø 2.3 | Ø 1 |
| Beam divergence (mrad) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Linear polarization | 100:1 | 100:1 | 100:1 | 100:1 | 100:1 | 100:1 | 100:1 | 100:1 | 100:1 |
| M² (horizontal/vertical) | 6/4 | 6/4 | 6/4 | 6 / 4 | 6/4 | 6/4 | 6/4 | 6/4 | 1.5 / 1.5 |
| Modulation freq.(kHz) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Diode power consumption | 2.2V / 32A | 2.2V / 32A | 2.2V / 40A | 2.2V / 40A | 2.2V / 40A | 2.2V / 40A | 2.2V / 32A | 2.2V / 32A | 2.2V / 40A |
| Dimensions of head only (LxWxH,mm) | 134x44x65 | 134x44x65 | 134x44x65 | 134x44x65 | 134x44x65 | 134x44x65 | 134x44x65 | 134x44x65 | 256x49x71 |
| Picture | | | | | KWAY | | | | 16 |

IFNOPTIK

| JENOPTIK | | | | | |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Series | | | Green | | |
| Optical power (mW) | 2000 | 3000 | 5000 | 8000 | 10000 |
| Center wavelength (nm) | 532 | 532 | 532 | 532 | 532 |
| Center wavelength tolerance (nm) | ± 1 | ± 1 | ± 1 | ± 1 | ± 1 |
| Beam size (FWHM, mm) | Ø 3 | Ø 3 | Ø 3 | Ø 3 | Ø 3 |
| Beam divergence (mrad) | ~1 | ~1 | ~1 | ~1 | ~1 |
| Linear polarization | Y | Y | Y | Υ | Υ |
| M² | <5 | <5 | <5 | <5 | <5 |
| Modulation freq.(kHz) | 20 | 20 | 20 | 20 | 20 |
| Diode power consumption | 2V/20A | 2V/20A | 2V/40A | 2V/40A | 2V/40A |
| Dimensions of head only (LxWxH,mm) | 106x62x24 | 106x62x24 | 106x67x34 | 106x67x34 | 106x67x34 |
| Picture | | | 8 | | |

RECOMMENDED APPLICATIONS

DISCO, CLUBS & ENTERTAINMENT



LASER BILLBOARD



OUTDOOR EVENTS



SPECIAL APPLICATIONS



DISTRIBUTORS

Australia - Lumina Visual Production

Austria - Technik design GmbH

Bahrain - Maestro music equipments co.

Bulgaria - Lux Laser System BG

Canada - Northern lights

Croatia - Prolight

Denmark - Laser Power APS

Egypt - Creative for import & export

France - Laser concept event

France - Laser Movement

Germany - GT - Tech, Dirk Gantefort

Germany - Highlight-Showtechnik

Greece - Electron S.A.

Greece - LS Creation

Greece - Digital xartisi

Ireland - Synchrovision Ltd.

India - Harness Overseas Pvt. Ltd

India -Thriller SFX

Iran - Pardazeshgaran Electronic Co.

Italy - Lightco

Italy - Scenes. Progetti per la

Japan - Lc-east co..LTD.

Netherland - Collimated

New Zealand - Flying pictures

Norway - Bergmann Prolight

Poland - Mediam Ltd.

Romania - Laser Shows SRL

Russia - Alexander Kharchenko Yugdoka

Russia - Lux Laser Systems

Russia - Orion - Art Production Intl.

Saudi Arabia - Intro Events Creation

Senegal, Ivory Coast - Concept & Creation

Singapore - Master Light & Sound

Slovenia - ProTiRa Timotej Rakuša s.p.

Spain - Tecnoradio

South Africa - Technology Brokers

Sweden - Laserboy

Taiwan - Sunlit System Corporation

Thailand - Dynamic Source Co., Ltd.

Tunisia - Mediacom

Turkey - Effect Ses Isik Lazer ve Goruntu

Turkey - Dinakord

Turkey - Asimetrik

U.A.E. - Techno pro I.I.c.

USA - CT. Lasers

USA - GK Photonics, Inc.

United Kingdom - Synchrovision Ltd. (KVANT-UK)

Vietnam - Tan Huu Tai Co.